

--ABSTRACT OF THE DISCLOSURE

An interference cancellation apparatus and method may remove interference from a directional array combined signal that is received by an array antenna and array combined on a directivity-by-directivity basis. The apparatus and method input a plurality of array combined signals subjected to array combining on a directivity-by-directivity basis to select an array-combined signal corresponding to a path. A correlation value is detected between the selected array combined signal and a spread code. Detected correlation values are combined to generate a combined value, and the combined value is used to generate a temporarily determined value. The temporarily determined value is re-spread to generate a re-spread signal, and re-spread signals are sorted for every directivity, on a per path basis. The re-spread signals sorted for every directivity are then added to generate a replica signal.--